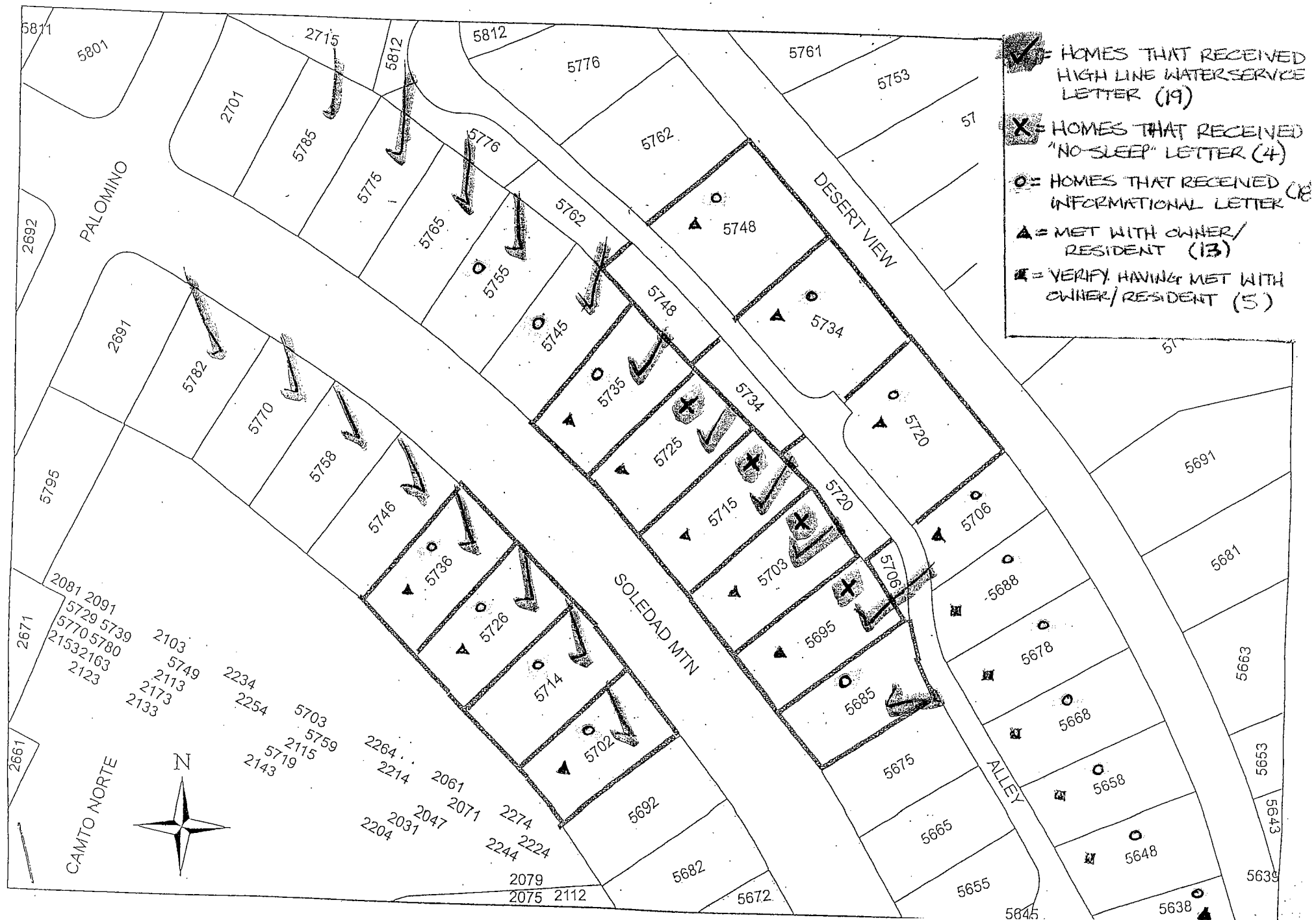


# Soledad Mountain Road / Desert View Drive



LINE

**Alex Ruiz - Fwd: 16" Main Shutdown Soledad Mt. Rd. -**

---

**From:** David Jarrell  
**To:** Jamie Fox Rice; Steve McNally  
**Date:** 6/18/2007 3:32 PM  
**Subject:** Fwd: 16" Main Shutdown Soledad Mt. Rd. -  
**CC:** Alex Ruiz; Bill Harris; Jeff Gattas; Richard Haas

---

Water service was restored at approximately 2:00 p.m.

>>> David Jarrell 6/18/2007 12:19:02 PM >>>  
 Steve and Jamie,

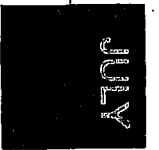
Below is notification of a 16" main shutdown affecting 46 services in La Jolla. We will provide an update, including the estimated time of service restoration, as soon as it is available.

Regards,  
 Dave

>>> Johnny Mitchell 6/18/2007 11:35 AM >>>

**We are reporting the following water main emergency shutdown:**

<b>Event/Facility:</b>	16" AC Water Main Shutdown
<b>Location:</b>	6062 Soledad Mt. Rd.
<b>Thom Bros /Council:</b>	1247 J-2 / Council District 2 (La Jolla)
<b>Reported Date/Time:</b>	6/18/07 11:08 AM
<b>Shutdown Date/Time:</b>	6/18/07 Crew has requested regulator crews for assistance with shutdown
<b>Impact:</b>	46 Services 5900-6200 Soledad Mt. Rd.
<b>Significant Elements:</b>	Water Ops. crews pulled existing water service from the main. Minor street damage, no media, no environmental issues
<b>Temp Water Source:</b>	N/A
<b>Status:</b>	Crew on site making repairs
<b>Est Service Restoration:</b>	Unknown at this time. Updates will be provided.
<b>Service Request #:</b>	2994556



**Patti Boekamp - Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens**

---

**From:** Jim Barrett  
**To:** Ruiz, Alex  
**Date:** 7/19/2007 10:27:58 AM  
**Subject:** Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens  
**CC:** Boekamp, Patti; Bruce, Janet; Haas, Richard; Jarrell, David

---

Alex - we need to chat about this before I call Mr. Crabbe back... I believe that this is about to become another Carminito Avola and the proximity to Desert View only exacerbates the concern. A three inch drop in four months is not normal... even for trench subsidence. jim

Jim Barrett, P.E.  
Director, Water Department  
City of San Diego  
600 "B" Street, Suite 1300, MS 913  
San Diego, CA 92101-4588  
O: 619.533.7555  
F: 619.533.7593  
[jbarrett@sanidiego.gov](mailto:jbarrett@sanidiego.gov)

>>> Janet Bruce 7/19/2007 10:23 AM >>>

Jim, Mr. Tom Crabbe (619) 997-4359 called asking to speak to you regarding concerns that he and his neighbors have.

Emergency work was done last night by the Water Department. The crew did a great job. **However, he and his neighbors are very concerned because something is going on in the area.** The street that was patched last March has separated and the street appears to have dropped 3 inches. He believes the City just plans to repatch the street. They feel the ground may be shifting which may have caused the break last night. There was major damage in the past on Desert View Drive (to 4 homes) which is below their street. They feel that the City should send out a geologist to see if something is happenings in the area, before any major damage occurs.

He would like someone to call him back regarding their concerns.

Janet

**From:** Jim Fisher<JFisher@sandiego.gov>  
**To:** RuizA@sandiego.gov  
**Date:** Fri, Jul 20, 2007 7:06 PM  
**Subject:** RE: Fwd: Re: Soledad Mtn Road

Alex, That is the location of the break last night. Lets talk on Monday to determine how we want to look further into this. Jim

-----Original Message-----

From: "Alex Ruiz" RuizA@sandiego.gov  
To: JFisher@sandiego.gov  
Sent: 7/20/07 5:10 PM  
Subject: Fwd: Re: Soledad Mtn Road

Jim (F):

This is a ways south from our Caminito Avola location... Did we have a main break at Mr. Crab's location....??

Alex

(619) 533-6692  
Assistant Director  
Water Department

>>> Richard Haas 7/19/2007 11:26 AM >>>

Hi Thyme,

Jim Barrett, the Director of the Water Department, is researching this problem and is planning to call Mr. Crab back.

Jim or Alex Ruiz (Assistant Director) will send you an e-mail and let you know the summary of their discussions.

Rich

>>> Thyme Curtis 7/19/2007 10:34 AM >>>

Hi Rich,

A constituent named Tom Crab (619.997.4359, 5703 Soledad Mtn Road) just called and is very concerned about Soledad Mtn Road, specifically in front of 5715 Soledad Mtn Road. He said that the street has been sinking and cracking for the past few months, and back in March 2007 he reported a crack in the street that was subsequently patched. Last night a pipe cracked and is currently being fixed by city crews, but Mr. Crab believes something more is going on underneath the street, that it is sinking or moving. He's hoping a geologist or engineer can take a look before something major happens.

Thanks,

Thyme

Thyme Curtis  
Council Representative  
Councilmember Kevin Faulconer, Second District  
(619) 236-7351 (phone)  
(619) 236-6996 (fax)

Disclosure: This email is public information. Correspondence to and from this email address is recorded and may be viewed by third parties and the public upon request.

[Message delivered by NotifyLink]

**CC:** JFisher@sandiego.gov

**From:** Patti Boekamp  
**To:** Hossein Ruhi  
**Date:** 7/23/2007 6:21:28 PM  
**Subject:** Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

I think Rob should go take a look at the area....what do you think?

>>> Jim Barrett 7/19/2007 10:27 AM >>>

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He would like someone to call him back regarding their concerns.

Janet



**From:** Patti Boekamp  
**To:** Rob Hawk  
**Date:** 7/24/2007 7:58:01 AM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

no - just try the 5700 block....the constituents' number is with the bottom message. I'm not sure if Jim Barrett tried calling him yet as the message said he wanted to talk to Alex first about what the crews did and what they might have noted.

Patti

>>> Rob Hawk 7/24/2007 7:52 AM >>>

I'll go by this morning on my way back from Alta La Jolla, about 10AM. Do we have a specific address? Or some photos?

Rob

Robert N. Hawk, PE  
Senior Engineering Geologist/Deputy City Engineer  
City of San Diego, Engineering and Capital Projects  
Field Engineering Division, MS 18  
9485 Aero Drive San Diego, CA 92123  
(858) 573-5011  
(858) 627-3297 (Fax)  
[rhawk@sandiego.gov](mailto:rhawk@sandiego.gov)

Working Together to Engineer a Better Tomorrow

>>> George Qsar 7/24/07 6:37 AM >>>

No, I'm not aware of this. George

>>> Hossein Ruhi 07/24/2007 6:07 AM >>>

Are aware of this situation ? lets talk . we should visit the site

>>> Patti Boekamp 07/23/2007 3:59 PM >>>

We have Rob Hawk, a Senior Geologist - he may have even been here when Desert View had to be pinned back to the hillside....I was out late last week, so perhaps you already got someone to have Rob go take a look.

Patti

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**Jim Barrett - Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens**

---

**From:** Janet Bruce  
**To:** BarreTt, Jim; Ruiz, Alex  
**Date:** 7/24/2007 8:32 AM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens  
**CC:** Boekamp, Patti; Hawk, Rob; Qsar, George; Ruhi, Hossein

---

Jim/Alex - The customer had not given an address when I initially spoke to him. I called Customer Service and there is an account with that last name at 5703 Soledad Mountain Road. I called Rob Hawk and provided this information to him.  
Janet

>>> Rob Hawk 7/24/2007 7:52 AM >>>

I'll go by this morning on my way back from Alta La Jolla, about 10AM. Do we have a specific address? Or some photos?

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He would like someone to call him back regarding their concerns.

Janet

**From:** Patti Boekamp  
**To:** Hossein Ruhi  
**Date:** 7/24/2007 1:09:29 PM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

speaking of that....been meaning to suggest that we ensure he has someone under him in an appropriate classification to be training to take his place someday....this is a fairly critical assessment position that we need to ensure continuity of over time.....

Patti

>>> Hossein Ruhi 7/24/2007 12:50:03 PM >>>  
Thanks Rob , great job.

>>> Rob Hawk 07/24/2007 12:34:26 PM >>>

Hossein, Jim, & Patti: I visited the site this morning. After examining the repair and the pavement crack, as well as surrounding improvements, I concluded that there was no discernable evidence for a major landslide. It is still possible that some large-scale movement has taken place, but I would expect to see more movement reflected in the street, curb, gutter and sidewalk, as well as utility lines. Except for the asphalt patch and tear in the paving, the street only exhibited only typical minor cracking in the pavement which was likely from shrinkage. No evidence of movement was observed in the curb, gutter & sidewalk.

The crack in the street, located approximately 50 feet to the north of a repair patch, appears to be caused by settlement of the paving section along the utility trench, likely sewer but close to where I guessed the water line to be. It is my understanding that the water main has had a previous major leak along this section, and that water penetrated the sewer trench. It may be prudent to pothole the portion of the pavement that is sinking to evaluate whether or not a void exists underneath, prior to adding additional patching material.

I spoke with Mr. Crabbe regarding his concerns. As a long term resident, he has heard the various stories associated with large scale earth movement on Soledad Mountain & Desert View Drive. He said his concerns were alliviated due to my visit. He said he and his neighbors were also concerned about the effect on traffic due to the offset in the tear, as well as the roughness of the patch, and was hoping that further repairs could be made to smooth the road.

If you have any questions, please contact me.

Rob Hawk

PS: I have also attached two photos from the historic 1960 landslide that occurred between the 5600 blocks of Soledad Mountain and Desert View Drive during construction of the subdivision, as an FYI since you may not remember it ;). The photos were taken from the north looking south; Soledad Mtn. Road is on the right. The house in the photo that perches on the edge of the slide was rehabilitated and currently exists. The remaining homes were destroyed and the subdivision completely regraded to create a bench which is currently the "even" side of Desert View Drive.

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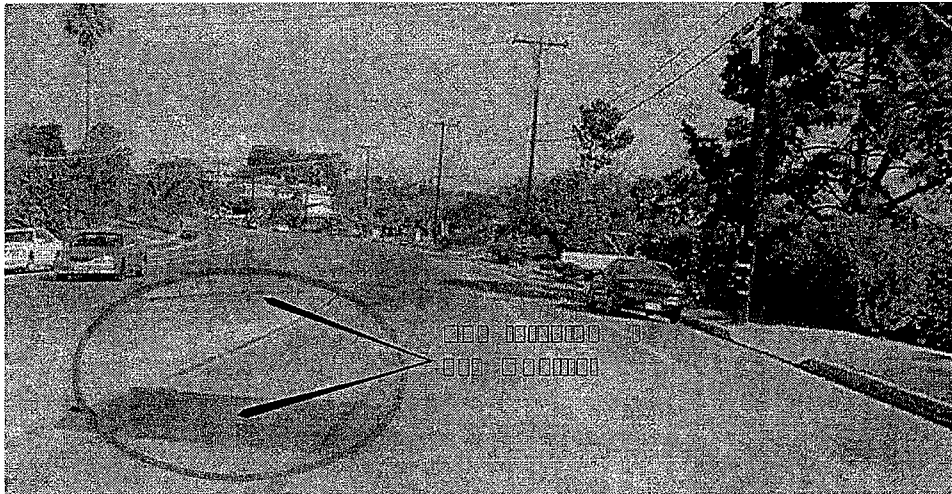
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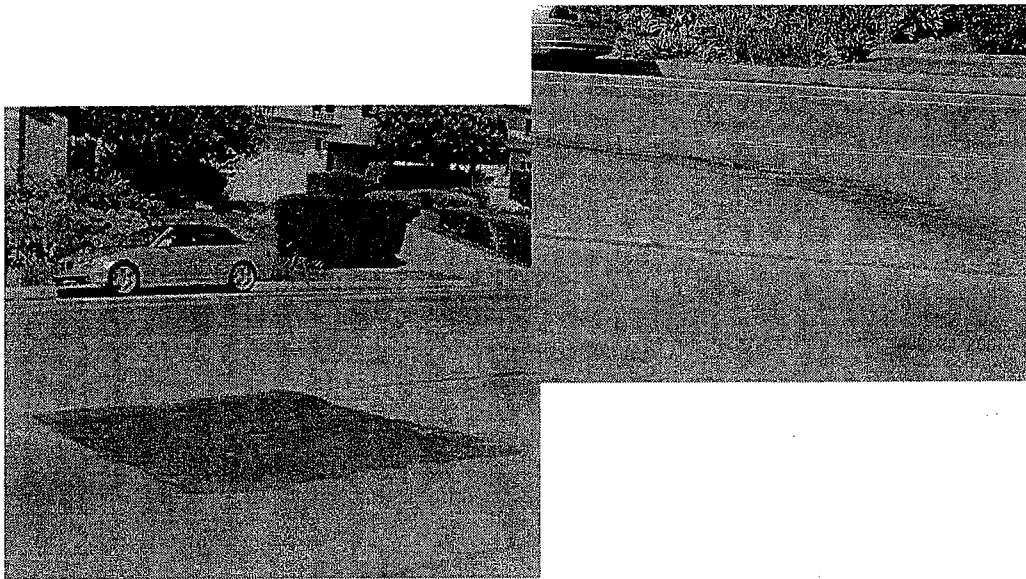
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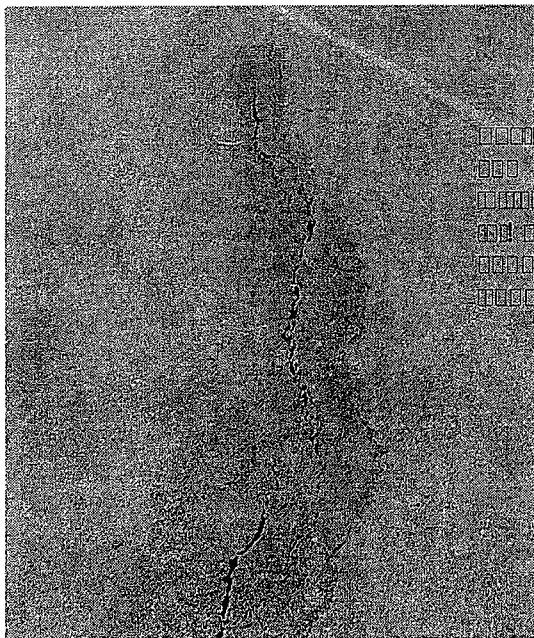
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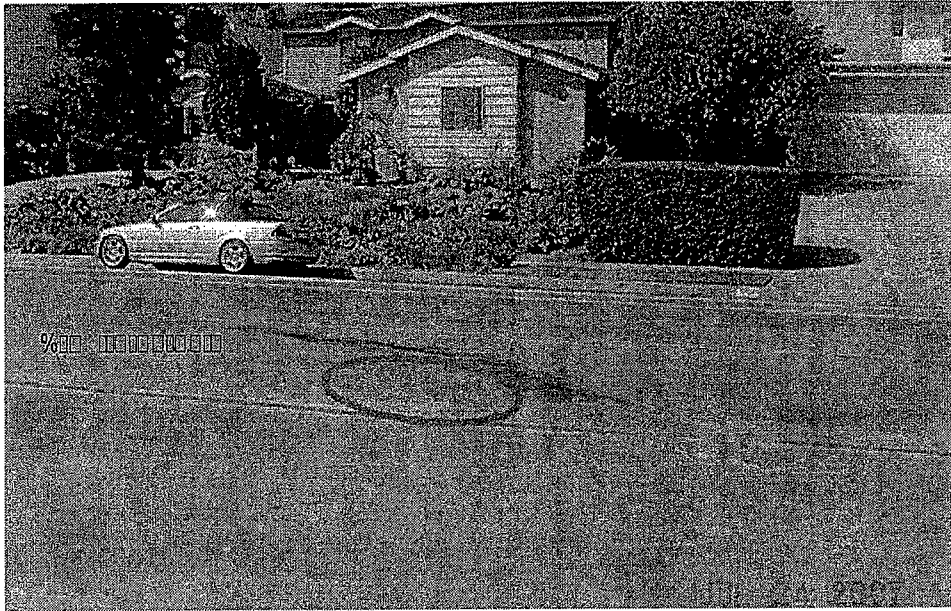
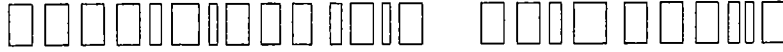






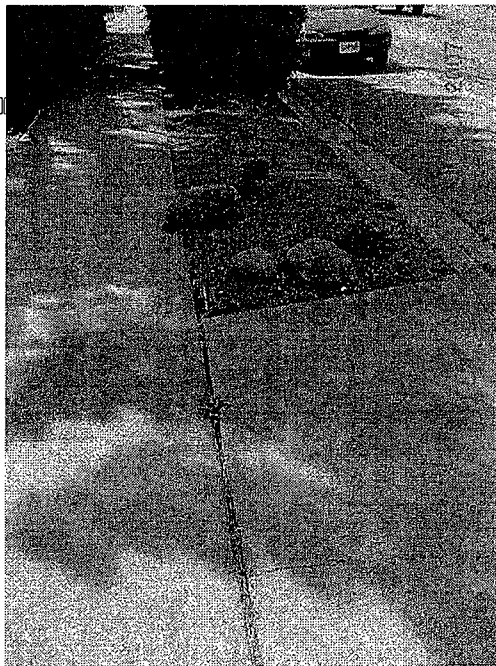
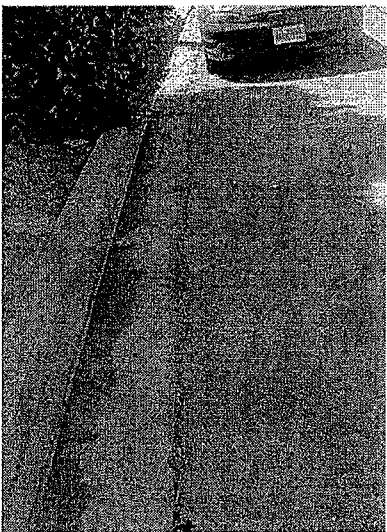


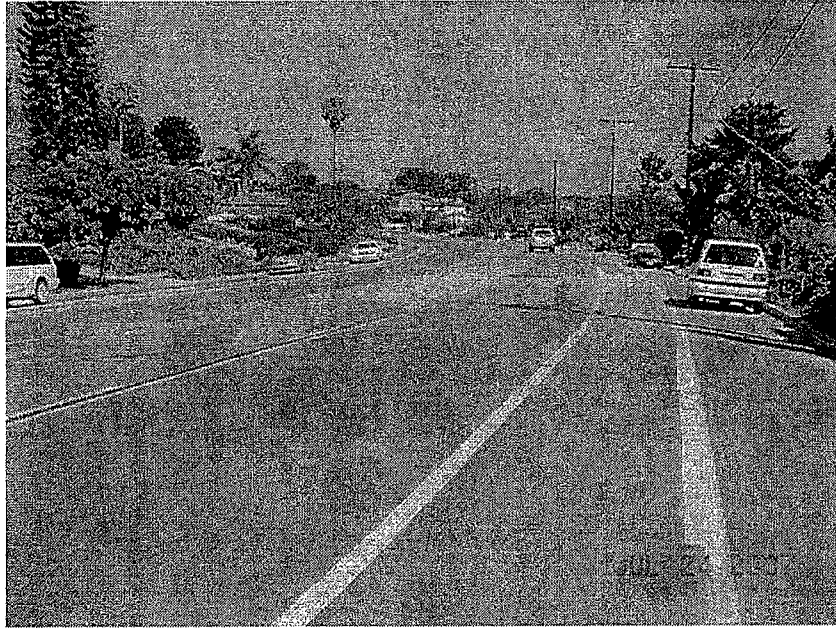
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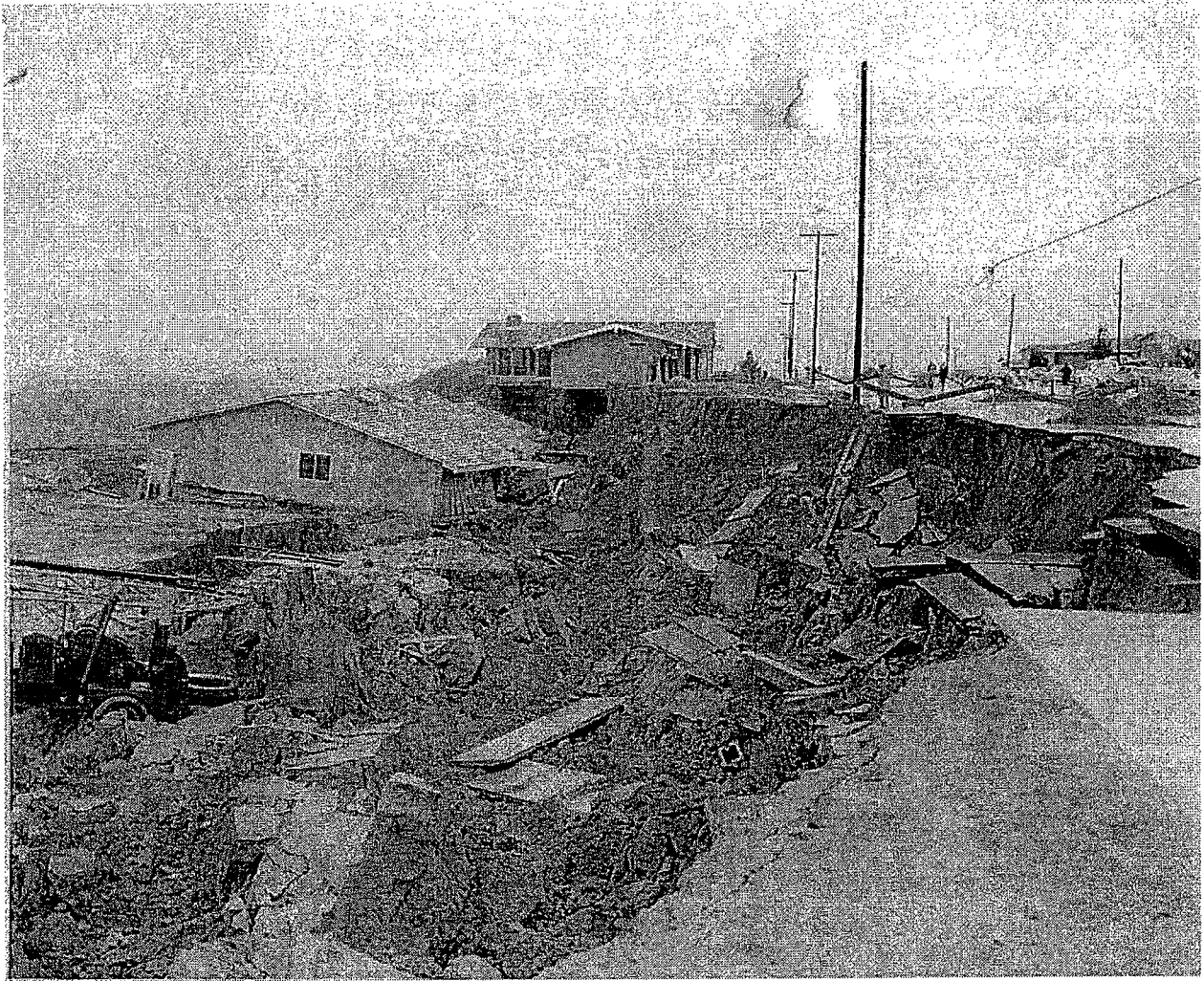


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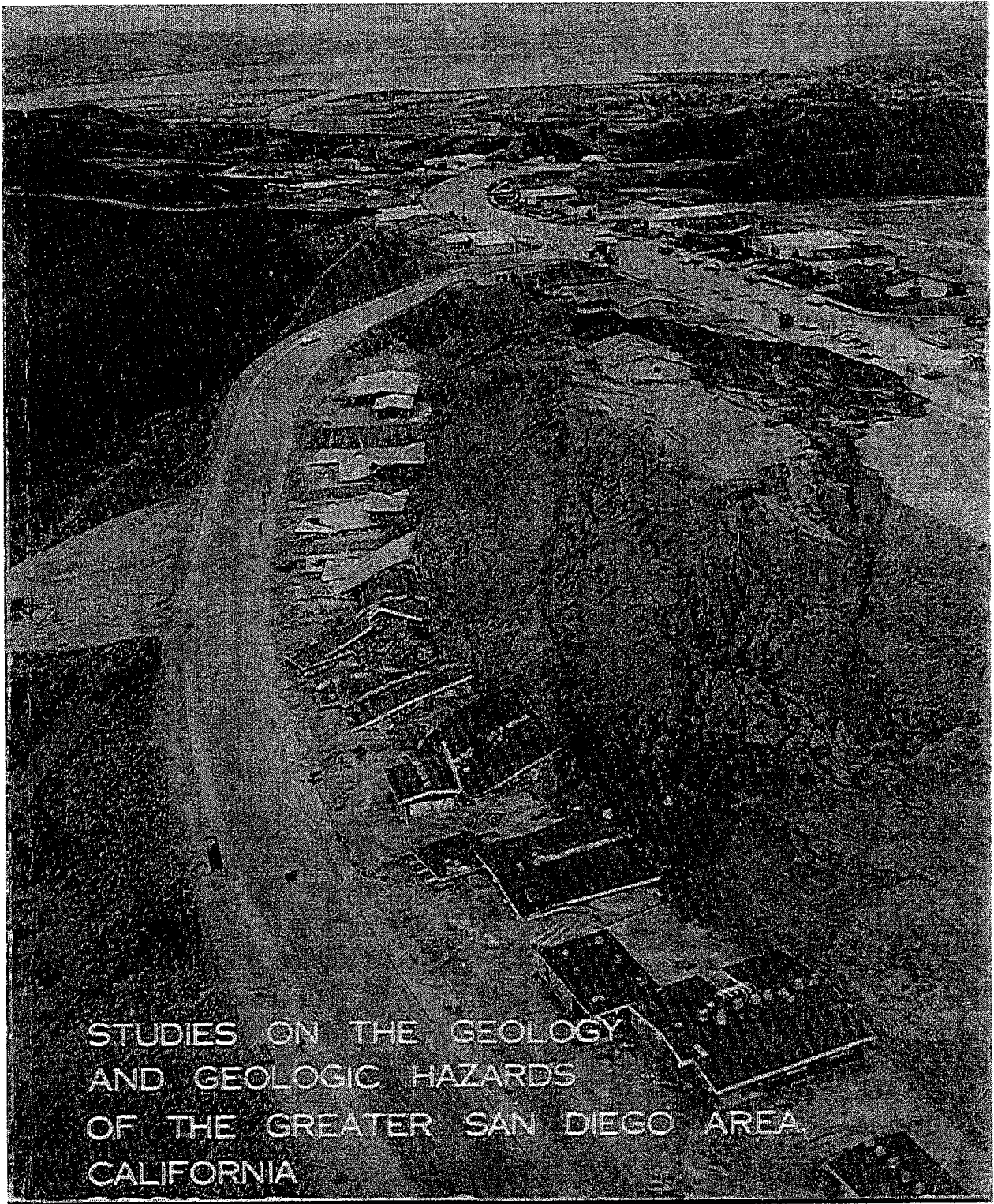
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STUDIES ON THE GEOLOGY  
AND GEOLOGIC HAZARDS  
OF THE GREATER SAN DIEGO AREA  
CALIFORNIA

## **Jim Fisher - Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens**

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**From:** Jim Fisher  
**To:** Christopher Toth  
**Date:** 7/25/2007 3:53 PM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

---

Chris, Here is the email from Rob Hawk on Soledad Mtn Rd issue that we discussed this morning. Jim

>>> Rob Hawk 7/24/2007 12:34 PM >>>

Hossein, Jim, & Patti: I visited the site this morning. After examining the repair and the pavement crack, as well as surrounding improvements, I concluded that there was no discernable evidence for a major landslide. It is still possible that some large-scale movement has taken place, but I would expect to see more movement reflected in the street, curb, gutter and sidewalk, as well as utility lines. Except for the asphalt patch and tear in the paving, the street only exhibited only typical minor cracking in the pavement which was likely from shrinkage. No evidence of movement was observed in the curb, gutter & sidewalk.

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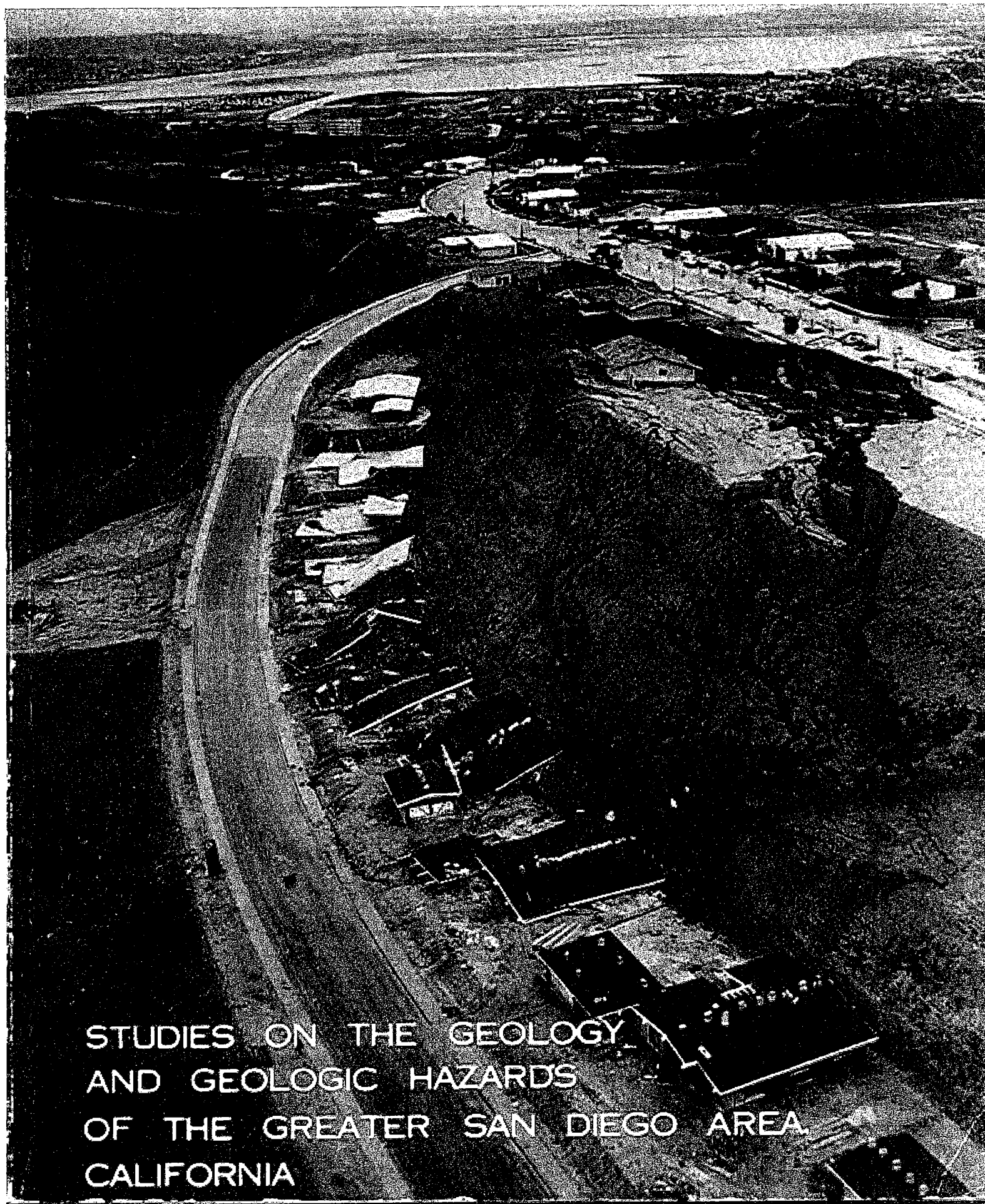
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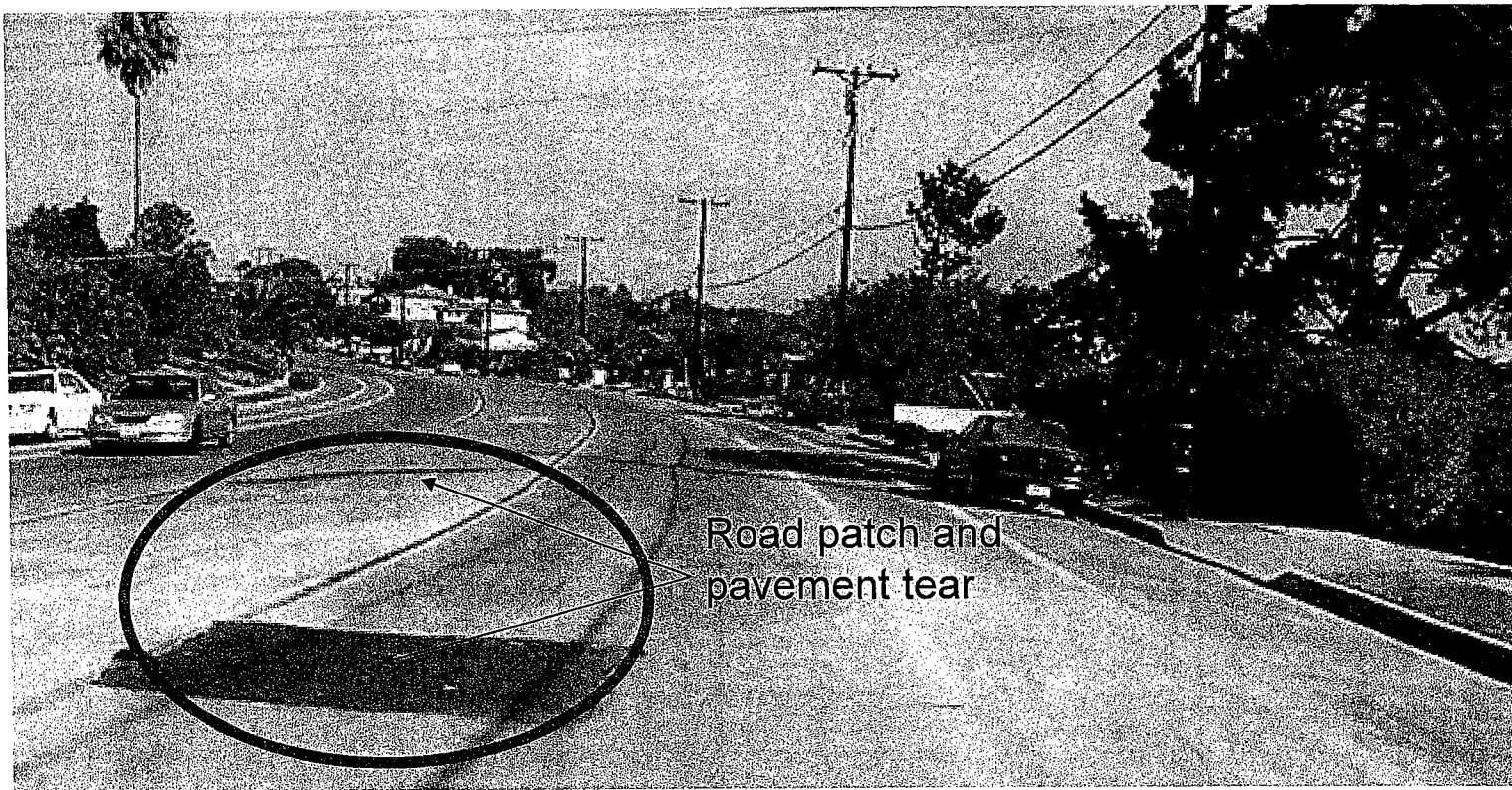
Janet



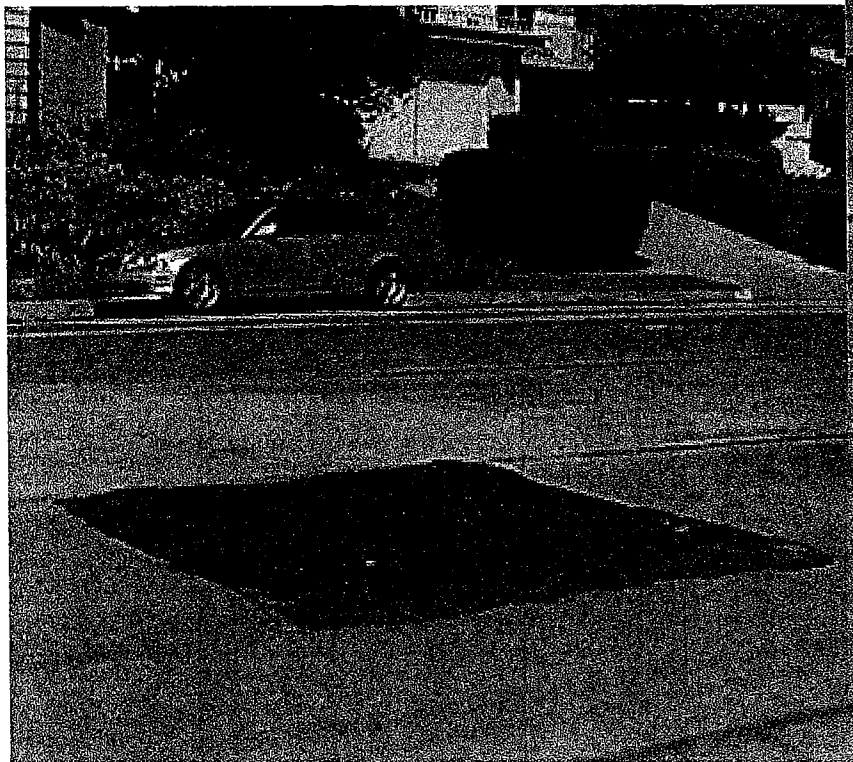


STUDIES ON THE GEOLOGY  
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# 7500 Block Soledad Mountain

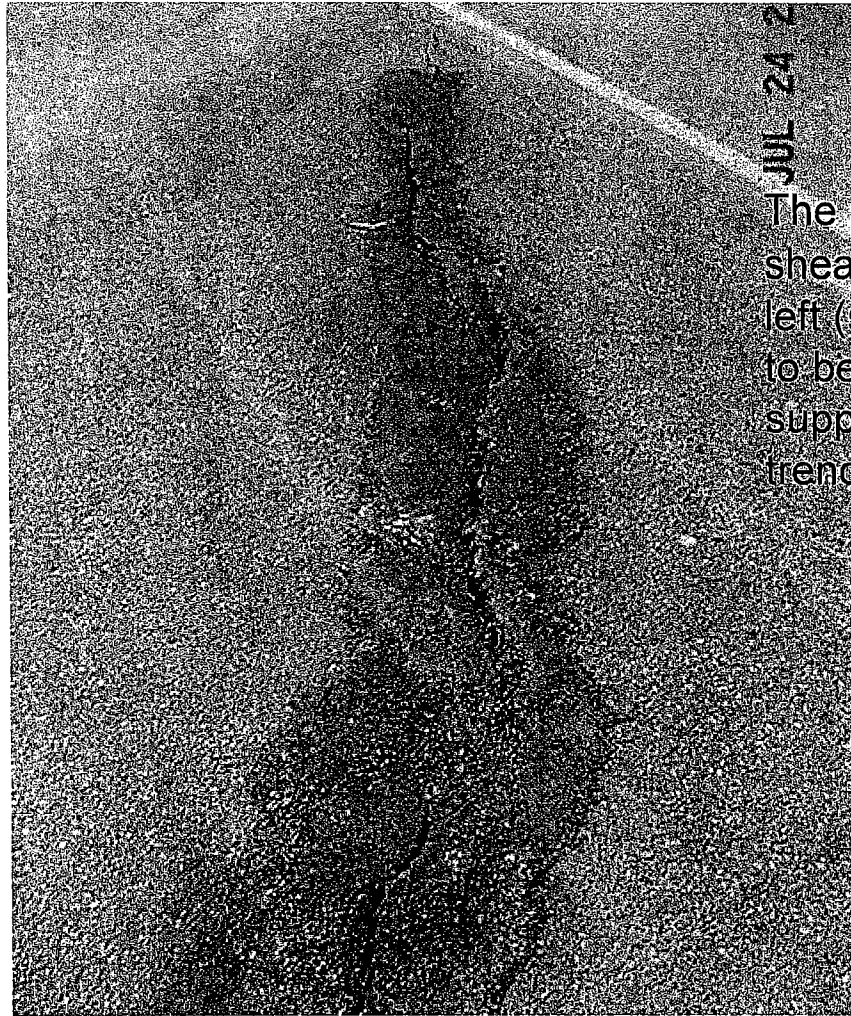


# 7500 Block Soledad Mountain



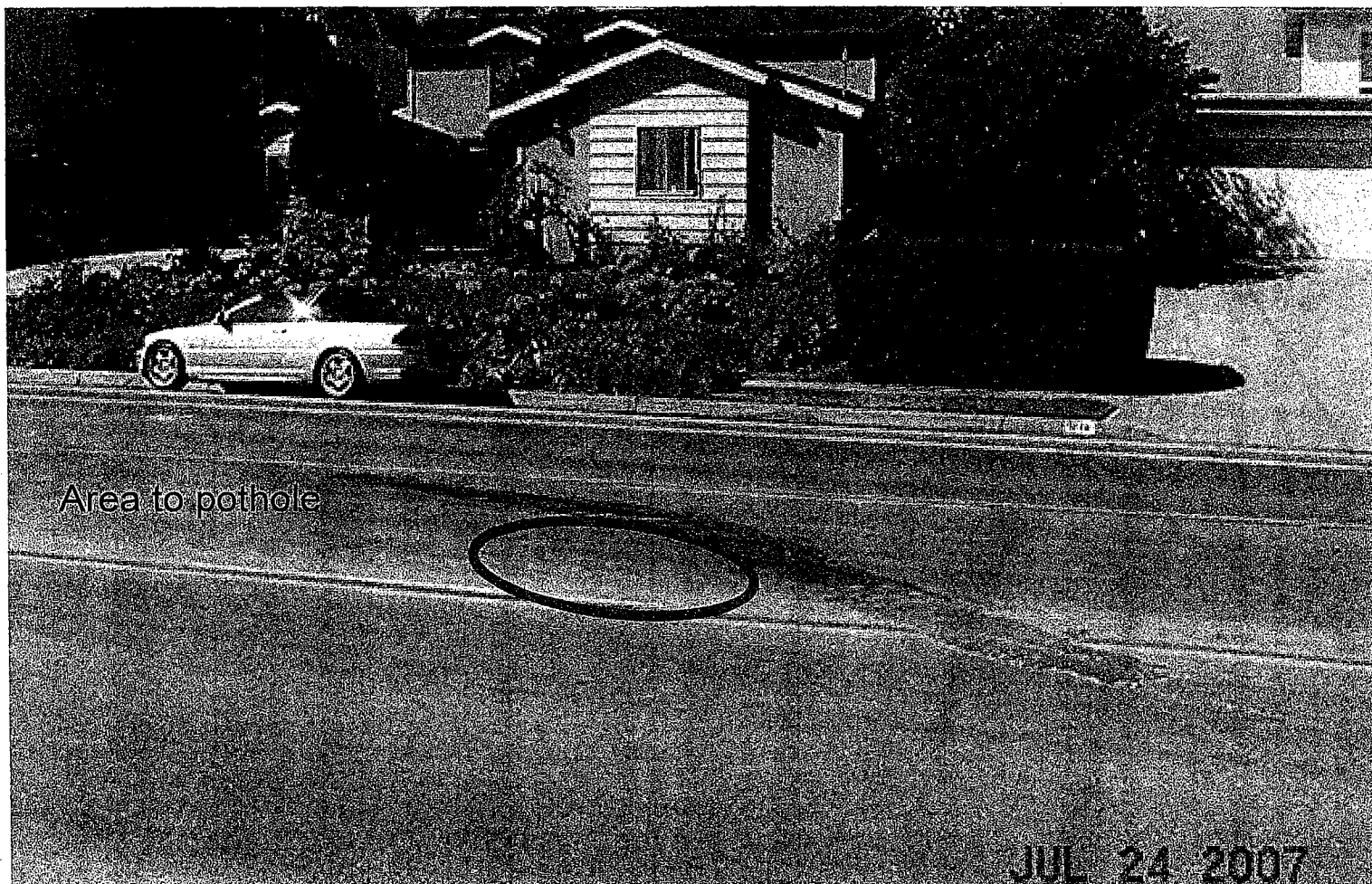


# 7500 Block Soledad Mountain



The pavement is sheared, down to the left (south); appears to be loss of underlying support by the trench backfill.

# 7500 Block Soledad Mountain



# 7500 Block Soledad Mountain

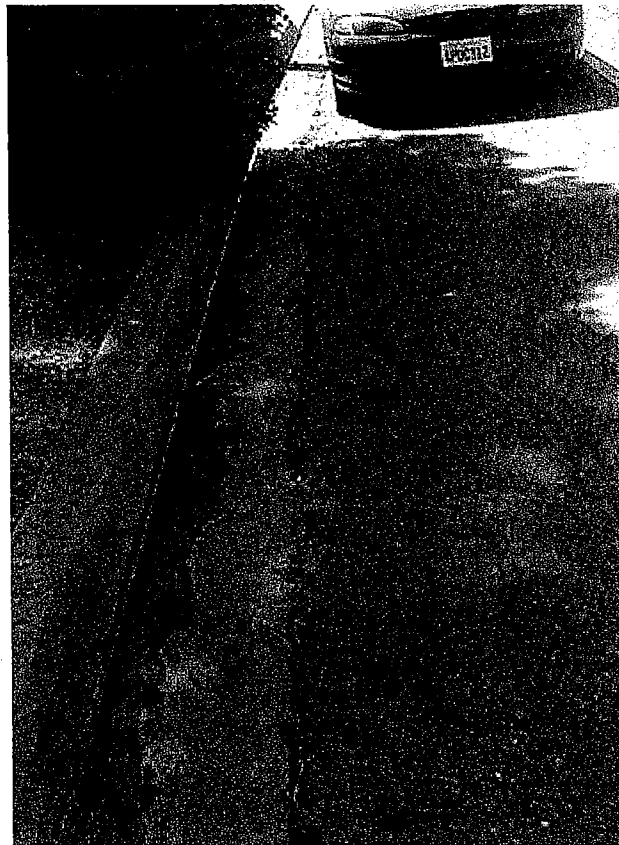
Minor pavement cracking





# 7500 Block Soledad Mountain

No discernable evidence for large scale gross movement (landslide), or movement of public and private improvements



# 7500 Block Soledad Mountain



**From:** Patti Boekamp  
**To:** Rob Hawk  
**Date:** 7/24/2007 3:34:19 PM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

I was 2 when that happened (the big one)...so it is the other piece I remember from my early days with the City (sheesh - it's been almost 18 years now....)

>>> Rob Hawk 7/24/2007 3:21:40 PM >>>

In the early '90's, there was a huge litigation where the City paid over 1,000,000 in litigation costs, and we stabilized the road for another 600K with caissons, and replaced the sewer. That failure only involved 5 houses, but was not spectacular as it quit moving once the street was repaired.

The City ended up with one house that we were going to tear down, but which became the "La Jolla Rat House" of the mayoral campaign that was recently demolished last year by REA & ECP (5635 Desert View). I worked on the building permit that started the failure in 1990, 6 months after I began working for the City.

I figured the 1960 failure predated you. You personally, not just your career.

Rob

>>> Patti Boekamp 7/24/07 3:07 PM >>>

since I remember talk about Desert View Drive, I think some kind of work on the utilities or the street went on in the late 80's or early 90's but it's a dim memory of a name I know enough to ask questions about :-)

Patti

>>> Rob Hawk 7/24/2007 12:34:26 PM >>>

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If you have any questions, please contact me.

Rob Hawk

PS: I have also attached two photos from the historic 1960 landslide that occurred between the 5600 blocks of Soledad Mountain and Desert View Drive during construction of the subdivision, as an FYI since you may not remember it ;). The photos were taken from the north looking south; Soledad Mtn. Road is on the right. The house in the photo that perches on the edge of the slide was rehabilitated and currently

exists. The remaining homes were destroyed and the subdivision completely regraded to create a bench which is currently the "even" side of Desert View Drive.

Rob

Robert N. Hawk, PE  
Senior Engineering Geologist/Deputy City Engineer  
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9485 Aero Drive San Diego, CA 92123  
(858) 573-5011  
(858) 627-3297 (Fax)  
[rhawk@sandiego.gov](mailto:rhawk@sandiego.gov)

Working Together to Engineer a Better Tomorrow

>>> Hossein Ruhi 7/24/07 6:07 AM >>>

Are aware of this situation ? lets talk . we should visit the site

>>> Patti Boekamp 07/23/2007 3:59 PM >>>

We have Rob Hawk, a Senior Geologist - he may have even been here when Desert View had to be pinned back to the hillside....I was out late last week, so perhaps you already got someone to have Rob go take a look.

Patti

>>> Jim Barrett 7/19/2007 10:27 AM >>>

Alex - we need to chat about this before I call Mr. Crabbe back... I believe that this is about to become another Caminito Avola and the proximity to Desert View only exacerbates the concern. A three inch drop in four months is not normal... even for trench subsidence. jim

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>>> Janet Bruce 7/19/2007 10:23 AM >>>

Jim, Mr. Tom Crabbe (619) 997-4359 called asking to speak to you regarding concerns that he and his neighbors have.

Emergency work was done last night by the Water Department. The crew did a great job. **However, he and his neighbors are very concerned because something is going on in the area.** The street that was patched last March has separated and the street appears to have dropped 3 inches. He believes the City just plans to repatch the street. They feel the ground may be shifting which may have caused the break last night. There was major damage in the past on Desert View Drive (to 4 homes) which is below their street. They feel that the City should send out a geologist to see if something is happenings in the area, before any major damage occurs.

He would like someone to call him back regarding their concerns.

Janet

## **Jim Fisher - Main Break**

---

**From:** Jim Fisher  
**To:** Lois Bennett  
**Date:** 7/24/2007 2:53 PM  
**Subject:** Main Break  
**CC:** Stan Medina; Susan Wynne

---

Lois, I heard from Stan that the break on Soledad Mtn Rd on 7/18 was actually a blown service. Can you please research and have the records changed if necessary. Thanks Jim

**Jim Barrett - Fwd: Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens**

---

**From:** Jim Fisher  
**To:** Alex Ruiz; Jim Barrett  
**Date:** 7/24/2007 3:05 PM  
**Subject:** Fwd: Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens  
**CC:** David Jarrell; Richard Haas; Stan Medina

---

Jim/Alex,  
Stan Medina and I visited the site yesterday. In addition, we reviewed our records since January 2004 to determine the history in the area from a water perspective.

A review of the records, shows that the blown service (initially reported as a main break) on July 18th is the only water related activity in the immediate area (+/- 1/4 mile) since January 2004. The blown service was approximately 50 feet away from the tear in the street. In addition, Mr. Crab reported that the tear appeared in March 2007. Based on this, our blown service could not have caused the tear in the street.

The tear in the street is located above the sewer main (see attachment). I would recommend requesting MWWD to televise their sewer main to see if they have a problem with it. If they do, they should proceed to repair the street. If not, then the street repair should go to Streets. Jim

>>> Alex Ruiz 7/24/2007 1:19:17 PM >>>

Jim F:

Based upon Rob's conclusions, I would recommend we go ahead and make the indicate repairs to the street. This situation sounds very similar to Marlborough Drive, where our main break discharge traveled along the sewer trenchline causing the failure of the sewer trench. As I recall, we finally made the street repairs in that situation too....

Alex

(619) 533-6692  
Assistant Director  
Water Department

>>> Jim Barrett 7/24/2007 1:10:01 PM >>>

Alex/Jim - doesn't look like Rob sees a significant problem but is recommending some rework of previous repairs... not sure whether the tear is ours so we may need to coordinate with E&CP... or just go ahead and fix it while we're in the area (as Rob seems to think the tear is indirectly ours). Please let me know your thoughts so I can close with CD1. Thanks, jim

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[jbarrett@sandiego.gov](mailto:jbarrett@sandiego.gov)



**From:** Jim Fisher  
**To:** Alex Ruiz; Jim Barrett  
**Date:** 7/24/2007 3:42:21 PM  
**Subject:** Fwd: Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

Alex, We'll contact MWWD and report back their findings. Jim

>>> Alex Ruiz 7/24/2007 3:39:39 PM >>>

Jim F:

Ok.. Would you contact the appropriate staff in MWWD to see if they can televise? But unless it turns up a sewer issue, i think we are going to end up assuming street repair costs. Just seems too close and too coincidental to our blown service. In addition, one could argue that while the tear may have been pre-existing, the blown service likely exacerbated the problem, especially if potholing ends up showing a void.....

but I am still open

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**From:** Alex Ruiz  
**To:** Jim Barrett; Jim Fisher  
**Date:** 7/24/2007 3:39 PM  
**Subject:** Fwd: Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens  
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**From:** Patti Boekamp  
**To:** Hossein Ruhi  
**Date:** 7/24/2007 3:45:18 PM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

Are you expecting Water or Metro to do/order the potholing? Do we need to be specific with them?

**From:** Patti Boekamp  
**To:** Rob Hawk  
**Date:** 7/24/2007 3:07:28 PM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

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**Jim Barrett - Fwd: Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens**

---

**From:** Jim Fisher  
**To:** Alex Ruiz; Jim Barrett  
**Date:** 7/25/2007 12:43 PM  
**Subject:** Fwd: Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens  
**CC:** Stan Medina

---

Jim/Alex, Today Bob Ferrier, Hossein Ruhi, Chris Toth and I discussed the street issue on Soledad Mtn Rd. MWWD has agreed to televise their main by Friday. If MWWD does not find any issues with their main, Field Division will take the lead to pothole the street in an attempt to determine problem. Preliminary indications are that this work would be done at MWWD's expense. If the pothole does not identify the issue, then Field would consider doing further more in depth investigation. Jim

>>> Alex Ruiz 7/24/2007 3:39 PM >>>

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**From:** Patti Boekamp  
**To:** Jim Barrett  
**Date:** Wed, Jul 25, 2007 2:05 PM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

I'm presuming you or Metro will check out the problem deeper - I had Rob go to see if we needed to look at larger scale land movement in that historically problematic area. It seems like he has handled the constituent's questions and concerns for now, but he does recommend more investigative work related to the trench issues.

Patti

**From:** Melody Shaw-Sydnor  
**To:** Christopher Toth  
**Date:** Fri, Jul 27, 2007 8:51 AM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

Chris,

Robert Parker televised the mains yesterday. No major problem were found. I will refer a couple of mains to be cleaned for city protection. Thanks. Melody

>>> Christopher Toth 7/25/2007 4:07 PM >>>

Melody, please work to televise the sewer main in this location on Soledad Mt Road. We will forward the results of our cctv investigation to E&CP engineering staff so they can further investigate the road/soil issues after we determine if our sewer pipe is in good condition. thanks, Chris

**CC:** Kevin Gensler; Mike Bedard

**From:** Rob Hawk  
**To:** HRuhi@sandiego.gov  
**Date:** Fri, Jul 27, 2007 9:52 AM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens (Vacation 7/26-7/30)

I will be out of the office on Thursday and Friday, 7/26-7/27/07, returning Monday 7/30. If this is an urgent geotechnical issue, please contact George Varshock at 619-446-5304. As-built questions should be directed to Kathleen Simmons, 858-627-3207.

>>> Hruhi 07/27/07 09:52 >>>

Thanks , this is a very good news .

>>> Christopher Toth 07/27/2007 9:07 AM >>>  
the sewer mains in this area are reported to be in good shape and not structurally impacted by soil movement. Chris

## **Hossein Ruhi - Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens**

---

**From:** Christopher Toth  
**To:** Ferrier, Robert; Hawk, Rob; Navarro, Jose; Ruhi, Hossein  
**Date:** July 27, 2007 10:34 AM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

---

from our discussion earlier this week, I understand that now Engr Field Division moves forward to test the street's underlying soil movement issues. Chris

>>> Robert Ferrier 7/27/2007 10:19 AM >>>  
Chris,  
Sounds good.  
What's the next step re the subsidence?  
RJF

>>> Christopher Toth 7/27/2007 9:07 AM >>>  
the sewer mains in this area are reported to be in good shape and not structurally impacted by soil movement.  
Chris

**From:** Robert Ferrier  
**To:** Christopher Toth; Earl Lokers; Hossein Ruhi; Jose Navarro; Mak Daoud; Rob Hawk  
**Date:** Fri, Jul 27, 2007 11:58 AM  
**Subject:** Re: Fwd: 5700 Block of Soledad Mt. Road - Concerns of Citizens

Sounds like a heck of a plan. Thanks for the follow up....

>>> Hossein Ruhi 7/27/2007 10:37 AM >>>

With this email I am asking that our lab do an exploratory coring to see if there is void under the pavement or not . If there is no void then we should prob thru the hole to see if the soil is loose or not . if it is loose then we need to do a n appropriate repair otherwise just overlay the sunken areas .

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**To:** Christopher Toth; Earl Lokers; Jose Navarro; Mak Daoud; Rob Hawk; Robert Ferrier  
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about the work and inquired about the hydrants in the area being affected.

I have also attached the satellite pictures of what appears to be a large crack or fissure in the area of 5700 Soledad Mtn. Rd.

(Fred, George and Bill: Sometime this week, we plan on flying the area with a city geologist -- Rob Hawk. Let me know if you'd like to go on flight.)

**CC:** Gregory Donnelly